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# UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S)

Kumar, et al.

GROUP ART UNIT: 2662

APPLN. NO.:

09/975,353

EXAMINER: Hong Sol Cho

FILED:

10/11/01

Confirmation No.

9535

TITLE:

USE OF IP-MULTICAST TECHNOLOGY FOR 2-PARTY CALLS IN

MOBILE COMMUNICATION NETWORKS

# INVENTOR'S DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This declaration is to establish conception of the subject matter of the present application in the United States or other provincial region permitted by the Rule prior to the effective date of United States Patent Publication No. US 2002/0026525 filed on 3 April 2001 (with an effective date of 4 April 2000) entitled "Supporting Mobile Hosts on an Internet Protocol Network" to Armitage (Armitage patent) and diligence to the filing of the provisional patent application for which the present application claims priority (constructive reduction to practice) from a time prior to the effective date of the Armitage patent, 4 April 2000, to the filing date, 30 August 2001, of the provisional patent application for which the instant patent application claims priority.

In support of this declaration, I, Surender Kumar of Naperville, Illinois, declare and sayeth the following:

That the claimed subject matter of the instant patent application stands subject to a rejection under 35 U.S.C. 102(e) for anticipation and 35 U.S.C. 103(a) for obviousness by United States Patent Publication No. US 2002/0026525 filed on 3 April 2001 entitled "Supporting Mobile Hosts on an Internet Protocol Network";

That the claimed subject matter of the instant patent application was conceived in the United States or other provincial region permitted by the Rule before the effective

date (4 April 2000) of the Armitage patent in the course of employment by Motorola Inc., the assignee of record at REEL/FRAME 012256/0520;

That the claimed subject matter of the instant patent application was the subject of a written invention disclosure (ID No. CM04624H) prepared and submitted, with diligence, to a patent committee of Motorola Inc., the assignee of the instant patent application, for the purpose of documenting and evaluating invention disclosures for patent protection:

That, after consideration of the written invention disclosure, ID No. CM04624H, by the Motorola Inc. patent committee, a patent specification and drawings were prepared by or on behalf of an attorney or agent of the assignee based on the subject matter of the written invention disclosure, ID No. CM04624H, and that the patent specification and drawings were reviewed and completed with diligence from a time prior to the 4 April 2000 effective date of the Armitage patent to the filing date of the provisional patent application for which the instant United States patent application claims priority where the provisional patent application was filed on 30 August 2001;

That the attached written invention disclosure, ID No. CM04624H, is a true copy of the original written invention disclosure on which the instant patent application is based;

That the attached copies are true copies of original documents on which the instant patent application is based and submitted herewith are the following copies:

- a summary of discussions from an advanced inventing session discussing the claimed subject matter,
- · a screenshot of files in a folder having an electronic copy of the disclosure,
- page 34 of a Technical Requirements Specification of a product incorporating claimed subject matter in the instant patent application,
- a screenshot of many emails regarding the preparation of the instant patent application, and
- three emails from the screenshot of many emails regarding the preparation of the instant patent application.

That the redacted conception date (MPEP 715.07) on the attached written invention disclosure, ID No. CM04624H, is before the 4 April 2000 effective date of the Armitage patent; and

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE:

Acura Contuna

Data

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STATE OF ILLINOIS COUNTY OF COOK

This instrument was acknowledged before me by Surender KUMAR on the 23 day of Argania 12, 2005

Chesterine Lombardo,

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2. Primary or contact point inver	ntor(s) Use your full first, i	niddle and last names. Lise pa	ge 2 of the expanded disclosure form	for contributing incomes
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3) James E. Mathis	11,-5	Mais	DQ503	IL02-1242 847-576-0674
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3. What was the problem(s) to	be solved by the invention	or what was the need(s)	for the invention:	<u> </u>
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4. What is the prior art, and why	v dossoft it resolve the over	blomin or fulfill the needs	Λ.	
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This invention is a method for private call in wireless communassociated with every subscrib	r using distributed mobility nication networks. It is prim er ID.	and connection processin arily using a statically assig	g methods and multicast IP addined Multicast IP address as the i	ressing for providing a 2 Party ndividual connection identifier
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7. Date of conception REDACTED and if applicable, date first built (or written) and successfully tested: none
8. Product(s) this invention may be used in: Digital trunked systems, X-Zone, AeroLon, future iDEN architectures

Date the first offer for sale was made for a product <u>incorporating</u> this invention: <u>none</u>
 Date the first disclosure of this invention was made outside Motorola without a nondisclosure agreement:

11. Approvals: 2/Technical Staff or Patent Liaison 2/Management (both required) Signing this form attests to the fact that you understand the invention.

Name/Signature

Dept. No. Location/Rm. # Phone Num

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5)	Michael D. Sasuta	Mia	hald Sant	<b>,</b>	L02/1242	576-8150	
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# 14. What is the business impact of having a patent on this invention, for Motorola and/or competition:

This invention helps enable a 2 party private call using a fully distributed connection and transport planes for wireless systems. Such a distributed connection plane may scale to both smaller/cheaper and larger/higher-capacity systems than traditional centralized approaches based on zone controllers, DAPs, MSCs or other similar controllers. Such distributed designs improve the system uptime and reliability and also eliminate an inherent single point of failure that may be present in centralized systems.

### Expanded description; list any additional details you feel would be helpful in describing the invention: (cont'd)

# **Mobility and Registration**

Upon power up or cell change, subscribers send a location update request into the infrastructure that contains their ID and the associated individual connection identifier. As described in CM4161H, the subscriber, or the cell site on behalf of the subscriber, then sends "join" message to the local router for each of the mapped multicast network IDs (the connection identifier) to receive traffic destined for the subscriber. These network join message would use the Internet Group Multicast Protocol (IGMP). The local router, using techniques known in the art, propagates the join message to upstream router(s) as required such that the network re-configures itself to include this particular cell site local router when carrying traffic addressed to those IP multicast addresses.

# 2 Party Private Call

The subscriber sends a request for a private call to a particular Target ID. A name lookup is done using a Connection Naming Server database to determine the connection identifier associated with the target ID. After appropriate authorization and provisioning checks, the subscriber is given a grant to proceed. In the preferred embodiment, this grant would also include the connection identifier to be used for this target. The target is also notified that the call is starting for it. In the preferred embodiment, this notification is sourced from a higher level process, such as a service plane processor and contains the connection identifiers for both target and source (multicast IP addresses) for this call.

The subscriber would then send user payload traffic using that connection identifier. Alternatively, the subscriber could send user payload on an assigned RF channel which the infrastructure could then map to the correct connection identifier. Once the payload is addressed for entry into the network, the cell site would forward the user payload to the local router which would then forward the traffic into the network where it would be carried to the destination cell site that had previously registered to receive it. If the target wants to talk back to the originator, it uses the connection identifier of the call originator to send the user payload traffic. (confd)

# 16. Additional details concerning the prior art related to this invention:

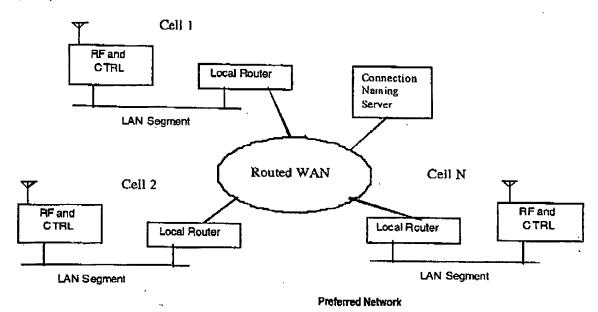
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Attach any backup documents or provide any other information you feel would be helpful in determining the desirability of obtaining a patent on this invention. Any attachments that are critical to the disclosure of the invention should be witnessed.

(cont'd)



Note that no mobility databases were consulted to determine which destination cell site is needed to be involved. That was handled automatically in the "leaf driven" network configuration steps.

# Deregistration

Pruning of the spanning tree can be achieved in a number of ways. The site could periodically page for the individual subscriber being present at the site. Failure to confirm its presence will result in the site sending a IP Multicast 'leave' message to remove the site from the spanning tree. Another mechanism for pruning the tree is a background site function which detects mobile terminals attaching to a new site and then sending a "detach" message to the site from which that terminal has come. The 'detach' message can be used to remove that terminal at the old site and sending a "leave" message can be sent to the network. A third mechanism has each site exchange the list of subscribers attached to that site along with a timestamp that indicates the last time the site successfully interacted with the subscriber radio. This information is exchanged much like reachability information in a distributed routing protocol. When a site detects that another site has a significantly more recent interaction with a subscriber radio, it assumes that the radio has left its site and a "leave" message is sent to the multicast router.

In these ways, logical connections are controlled by the client which, depending on the air interface protocol in use could be either the base site acting on behalf of the mobile terminal or the mobile terminal itself. The mobility information is inherently stored in the network rather than centralized in a single place.

This invention decentralizes the setup and maintenance of a 2-party private call and has the following desirable characteristics:

- Fully localized resource management.. RF resources and link resources are managed in a distributed fashion. Resource unavailability or congestion is determined locally and this information is made known to the higher layer processes, either by application layer timeouts, or by direct messaging from the connection processing in each client. The higher layer application (for example the 2 party call service processing) is then able to take appropriate action, such as to busy the call.
- No complex hierarchy of location registers (HLR/VLR) is required. Through the use of leaf register and deregister messages, the network can constantly reconfigure itself to route voice packets to the destination subscriber.
- No network connection setup activities required at the start of a call. Once a subscriber or a cell site on behalf of a subscriber has joined the multicast IP address, the network is ready to route traffic to the subscriber or cell site at all times.
- Highly scaleable network design. Unlike a centralized connection management approach which must be reconfigured as connection elements are added or deleted, the method allows the network to update itself constantly, determine new routes, and delete old ones. No manual link configuration is required. Configurations are also highly localized with each cell site having to know only about its local links

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Motorola Patent Disclosure - Additional Information

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Additional Information:

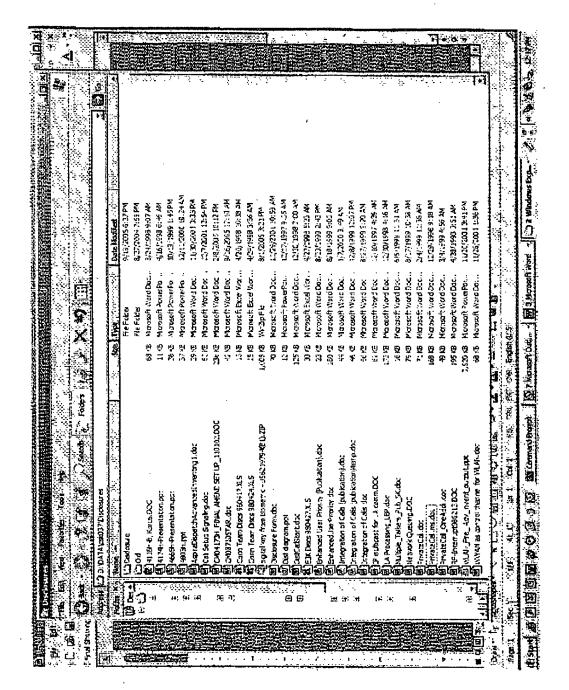
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Voice Call Set-up

# 5 Elementary Functions

Most of the requirements in this section are applied to both ASTRO and Dimetra systems. Any requirements that are applied to only one type of system, either ASTRO or Dimetra, will be pointed out accordingly.

# 5.1 Voice Call Set-up

# 5.1.1 Unit to Unit Call Operation

FR5.1.1 The system shall support the setup of unit to unit calls.

Traccability:

This section will cover the requirements for unit to unit calls in a packet network. This section covers the all of the unit to unit call setup requirements for unit to unit calls between two mobile stations or between a mobile station and a console. The call tear down section will cover the ending of a unit to unit call.

APCO Unit to Unit calls operate in a non-PPT-ID reaccess fashion. Because of this operation, the network must be pre-configured prior to the reaccess to prevent truncation of audio. Since unit to unit calls are point to point it is possible to setup a full duplex connection on the infrastructure to allow audio to flow between the endpoints without setting up the connections on each reaccess. The full duplex connection will be accomplished by allocating two multicast address for the unit to unit private call. Each entity in the call will be a source for one multicast address and a destination for the other with the roles reversed for each entity.

The MSCs (Message Sequence Chart) at the end of this section detail the flow of information between devices in order to setup a unit to unit call.

Note: The basic call flow is being reused from the ASTRO 5.1 release. The only requirements called out in this section are those that are new to the X.4 release. Therefore, if no requirements are called out for a particular topic, the existing ASTRO 5.1 requirements will be reused.

Note: This section addresses the flow of control messages between the devices involved in a group call. The processing that occurs on the audio plane after the reception of the control messages is addressed in Section 5.4 "Audio Processing".

## **MICI Requirements**

The MICI will be included in a unit to unit call only if a console is participating in the unit to unit call. For unit to unit calls involving the console, the MICI can be both a source and a destination in the full duplex network connection. The MICI can receive both an analog and a digital beginning of transmission message from the Zone Controller to establish both sides of the full duplex connection. The MICI will receive a Private Call ABOT only if the console needs to source audio and it will receive a Private Call DBOT to receive MS audio.

AR5.1.1.1 Upon receiving the Private Call Analog Line Beginning of Transmission message for a new call, the MICI will assign a call vocoder resource to be used to convert PCM audio into vocoded audio for the assigned call if a call vocoder resource has not already been

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